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A BIBLIOGRAPHY OF SCIENTIFIC INFORMATION ON FRASER RIVER ESTUARY WATER QUALITY

April, 1986

Inland Waters Directorate
Pacific and Yukon Region
Vancouver, B.C.

**ENVIRONMENT CANADA
CONSERVATION AND PROTECTION**

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**INLAND WATERS DIRECTORATE
PACIFIC AND YUKON REGION
VANCOUVER, B.C.**

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PREFACE

The general purpose of this bibliography is to provide a relatively comprehensive and flexible information database for use in Fraser River estuary water quality planning activities. The Fraser River estuary is defined as the land and water outside the boundary of the dykes and between Kanaka Creek and the outlet of Pitt Lake in the east, the estuary drop off in the west, Point Grey to the north and the international boundary to the south, including Boundary Bay and Semiahmoo Bay.

Although the focus was on water quality, the scope of the bibliography was broadened to include available information on the physical environment, contaminant sources, sediments, aquatic habitats, biota, and water uses. Information was acquired from government, university and private organizations, particularly through contact with individuals with direct research experience in the Fraser River estuary. On-line information database searches were used to augment the bibliography. Emphasis was placed on acquiring information published since 1978 when the most recent major literature reviews were conducted by the Fraser River Estuary Study. Unpublished information and work in progress are included in the bibliography under the principal investigator's name or organization.

The utility of this bibliography is greatly enhanced by its computer based format which allows the database to be quickly and easily updated and manipulated. Database management is currently being done with dBase II and dBase III on IBM PC/XT compatibles and with ORACLE on an IBM mainframe.

A typical citation in the bibliography would be as follows:

Inland Waters Directorate. 1974. Water quality data. British Columbia
1961-71. Water Quality Branch, IWD, Ottawa, unpaginated.
Keywords: estuary, water quality, major ions, nutrients, trace metals.
REF. NO.: ..151 LOCATION: WQB lib CALL NO.: A823

References can be searched by AUTHOR, TITLE, PUBLISHER, or KEYWORDS. A REF. NO. is used to identify each reference for sorting and indexing. LOCATION indicates where the reference can be found, and CALL NO. represents its library catalogue code.

Six keywords are available for each reference to provide a more structured framework for searching through the database. Keywords are used in a hierarchical fashion to describe the references.

All references are described by a geographic location namely: Main Arm, North Arm, Sturgeon Bank, Roberts Bank, Main Stem, Boundary Bay, and Estuary (a category that encompasses more than one of the preceding locations). The next level of keyword hierarchy consists of 10 major subject headings namely:

- | | |
|------------------------|-----------------|
| o Physical Environment | o Plants |
| o Contaminant Sources | o Invertebrates |
| o Water Quality | o Fish |
| o Sediments | o Birds |
| o Bacteria | o Water Use. |

For each of the above major subject headings, many different sub-headings are used to further describe the references. Since the total number of keywords used to describe each reference is limited to six, different references are described at different levels of detail. Therefore, in order to find all references on a particular topic, major keyword headings are used.

The complete listing of keywords used in this bibliography is provided in the following Table. Major subject headings are underlined. Also shown is the total number of times a keyword is used in the database.

This bibliographic printout contains 628 references. Tabs are used to divide three major sections of the bibliography. Organization of the bibliography is as follows:

1. References arranged alphabetically by AUTHOR.
2. References arranged sequentially by reference NUMBER.
3. A CROSS-INDEX of reference numbers organized by major subject headings.

It is anticipated that this bibliography will prove to be most useful in providing baseline information for establishing priorities and research strategies in the development of water quality programs. Information in this database can be readily searched and should be periodically updated thereby augmenting future information referral needs.

For more information about this computerized bibliography please contact Dr. D. Valiela at the Inland Waters Directorate, Phone 666-6038.

TOTAL NUMBER OF REFERENCES FOR EACH KEYWORD INDEXED

Keyword	No.	Keyword	No.
abundance	31	agricultural effluents	1
algae	12	alkalinity	1
amphipods	1	Annacis Island	1
annelids	1	bacteria	28
bathymetry	7	benthos	32
bibliography	6	bioaccumulation	20
bioassay	25	biological availability	1
biota	3	birds	71
boating	6	BOD	1
Boundary Bay	24	carbon	2
carcinogens	1	chemical spills	1
chironomids	1	chlorinated hydrocarbons	7
chlorine	5	chlorophenols	2
coal dust	1	commercial fishing	1
commercial use	61	contaminant sources	100
copper	2	crabs	4
currents	18	desorption	1
diffuse sources	3	discharge	30
dispersion	3	distribution	62
dogfish	1	dredging	26
drift	1	eelgrass	1
effluent quality	19	effluent quantity	3
epibenthos	5	erosion	3
estuary	363	fecal coliforms	16
feeding	25	fish	153
fish pathogens	2	fishing	14
flooding	5	Galliformes	1
herons	1	herring	3
heterotrophs	1	Indian	2
industrial effluents	13	industrial use	4
invertebrates	83	iron	1
irrigation	2	juvenile salmon	1
land use	1	landfill leachates	12
lead	1	log storage	6
Main Arm	120	Main Stem	1
major ions	9	management	26
maps	2	marsh	2
marsh plants	6	mercury	5
migration	3	modelling	18
monitoring	1	mysids	2
nickel	1	nitrogen	1
North Arm	27	nutrients	37
odours	1	oil	1
oligochaetes	11	organic content	1
organophosphates	1	oxygen	26
particle size	18	pathogens	3
PCB's	8	PCP's	1
peamouth chub	1	pesticides	3
pH	6	physical environment	139
pipelines	1	plants	66
predation	1	primary production	1

Keyword	No.	Keyword	No.
production	5	quantity	2
raptors	6	recreational use	31
remote sensing	8	resin acids	1
Roberts Bank	46	salinity	21
salinity tolerance	1	salmon	64
salt marsh	1	sediment load	13
sedimentation	23	sediments	142
sewage	70	shellfish	4
shipping	25	shipworms	1
shorebirds	7	stability	1
steelhead	1	stormwater discharges	20
Sturgeon Bank	49	sublethal effects	1
swimming	2	taxonomy	1
techniques	1	temperature	13
tides	18	time series	4
tissue analysis	1	toxicity	5
trace metals	77	trace organics	44
training walls	4	transformation	2
transport	1	turbidity	6
variability	1	vascular plants	23
water quality	206	water use	120
waterfowl	18	Woodward Island	1
zinc	1		

ACKNOWLEDGEMENTS

The original compilation of information contained in this bibliography was conducted from January to April, 1986, by Limnotek Research & Development Inc. under contract to the Water Quality Branch, Inland Waters Directorate, Conservation and Protection, Environment Canada, Pacific and Yukon Region. The scientific authority was Dr. D. Valiela. Ron Kistritz assisted with the study organization, database management and computer programming. Many thanks are offered to N. Dalley for facilitating preparation of the final draft of this bibliography.

SEARCH CRITERIA: All references in the file.

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KEYWORDS: North Arm, physical environment, sediments, plants, invertebrates, fish.
REF. NO.: ...39 LOCATION: WPMB impact CALL NO.: F1-EI.12
- Advisory Panel to the Pollution Control Board. 1980. Report and Recommendations of the Advisory Panel to the Pollution Control Board, Lower Fraser River Public Hearing, 18-22 Feb., 1980. Pollution Control Board, Lower Fraser River, 43pp.
KEYWORDS: estuary, contaminant sources, sewage, stormwater discharges.
REF. NO.: ..634 LOCATION: new CALL NO.: new
- Ages, A.. 1979. The salinity intrusion in the Fraser River: salinity, temperature and current observations, 1976, 1977. Pacific Marine Science Report 79-14, Institute of Ocean Sciences, Patricia Bay, Sidney, B.C.
KEYWORDS: Main Arm, physical environment, currents, salinity, temperature.
REF. NO.: ..622 LOCATION: new CALL NO.: new
- Ages, A. and A. Woollard. 1976. The tides in the Fraser estuary. Institute of Ocean Sciences, Pacific Marine Science Rept. 76-5, 100p.
KEYWORDS: estuary, physical environment, tides.
REF. NO.: ...43 LOCATION: WPMB library CALL NO.: F1-H.14
- Aird, W.J. and S.P. Pearce. 1976. Remote sensing data summary: Fraser River delta. Environmental Protection Service, Ottawa, EPS 3-EC-76-2.
KEYWORDS: estuary, water quality, remote sensing.
REF. NO.: ..256 LOCATION: new CALL NO.: new
- Airport Planning Committee. 1975. An environmental impact assessment of the Vancouver International Airport expansion proposals. Vancouver International Airport Master Plan project, Transport Canada.
KEYWORDS: Sturgeon Bank, contaminant sources, water use, commercial use, water quality, sewage.
REF. NO.: ..541 LOCATION: Public Works CALL NO.: 8-6
- Albright, L.J. 1983. Heterotrophic bacterial biomasses, activities, and productivities within the Fraser River plume. pp.216-220 In: Proc. of the symp. on the dynamics of turbid coastal environments/Can. J. Fish. Aquat. Sci. 40(1).
KEYWORDS: estuary, bacteria.
REF. NO.: ..181 LOCATION: Churchland CALL NO.: none

REFERENCES (listing continued):

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KEYWORDS: estuary, bacteria, abundance, heterotrophs.
REF. NO.: ..566 LOCATION: new CALL NO.: new
- Albright, L.J.. 1983. Influence of river-ocean plumes upon bacterioplankton production of the Strait of Georgia, British Columbia. *Mar. Ecol. Ser.* 12:107-113.
KEYWORDS: estuary, bacteria.
REF. NO.: ..179 LOCATION: Churchland CALL NO.: none
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KEYWORDS: estuary, fish, invertebrates, bioaccumulation, trace organics, PCB's.
REF. NO.: ..567 LOCATION: new CALL NO.: new
- Alexander, L.J. 1982. Fraser River Estuary Study: legal provisions for linked management. Technical background report - phase II. Management Systems Sub-committee, Ministry of Environment, Victoria, 40p.
KEYWORDS: estuary, management.
REF. NO.: ..284 LOCATION: new CALL NO.: new
- Anderson, E.P. et al. 1981. Environmental effects of harbor construction activities at Steveston, British Columbia. Part 1. Main Report. *Can. Tech. Rept. Fish. Aquat. Sci.* 1070.
KEYWORDS: Main Arm, water quality, fish, invertebrates, sediments, trace metals.
REF. NO.: ..400 LOCATION: new CALL NO.: new
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KEYWORDS: estuary, physical environment, water quality, fish, salmon, temperature.
REF. NO.: ..149 LOCATION: new CALL NO.: new
- Annacis Island Sewage Treatment Study. 1976. Annacis Island sewage treatment study. Report of the technical committee to the steering committee. Draft. Annacis Island Sewage Treatment Study, 38p.
KEYWORDS: Main Arm, water quality, sewage, effluent quality, fecal coliforms, trace metals.
REF. NO.: ...82 LOCATION: WPMB library CALL NO.: 34.26

REFERENCES (listing continued):

- Anon. prep. Data summary report on the analysis of environmental contaminants in tissue of fish from the Fraser River. Water Management Branch.
KEYWORDS: estuary, fish, bioassay, chlorophenols, trace organics.
REF. NO.: ..534 LOCATION: L. Swain CALL NO.: none
- Archibald, D. 1982. Interim report summarizing 1981 activities on Roberts Bank dredge and aquatic monitoring program. Unpub. rept. for National Harbours Board and Dept. Fish. Oceans, 52pp.
KEYWORDS: Roberts Bank, invertebrates, benthos, crabs, abundance, feeding.
REF. NO.: ..433 LOCATION: new CALL NO.: new
- Archibald, D. and R. Bocking. 1983. Annual report summarizing 1981-82 activities on Roberts Bank. Crab habitat loss and dredge monitoring program. Unpublished report for National Harbours Board and Dept. Fisheries and Oceans, 171pp.
KEYWORDS: Roberts Bank, invertebrates, crabs, bioaccumulation, trace metals, abundance.
REF. NO.: ..416 LOCATION: new CALL NO.: new
- Area Designation Task Force. 1981. First Draft Report of the Area Designation Task Force to the Fraser River Estuary Planning Committee. Fraser River Estuary Study, Ministry of Environment, Victoria.
KEYWORDS: estuary, water quality, water use, fish, birds, management.
REF. NO.: ..498 LOCATION: FRES CALL NO.: none
- Area Designation Task Force. 1982. Final Draft Report of the Area Designation Task Force to the Fraser River Estuary Planning Committee. Fraser River Estuary Study, Surrey.
KEYWORDS: estuary, water quality, water use, fish, birds, management.
REF. NO.: ..499 LOCATION: FRES CALL NO.: none
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KEYWORDS: estuary, water quality, water use, fish, birds, management.
REF. NO.: ..500 LOCATION: FRES CALL NO.: none
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KEYWORDS: Main Arm, physical environment, currents, temperature, salinity.
REF. NO.: ..631 LOCATION: new CALL NO.: new
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KEYWORDS: estuary, contaminant sources, water quality, landfill leachates, oxygen.
REF. NO.: ..103 LOCATION: WQB library CALL NO.: 1302.2

REFERENCES (listing continued):

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KEYWORDS: Roberts Bank, water quality, vascular plants, invertebrates, fish, birds.
REF. NO.: ..613 LOCATION: R. Kistritz CALL NO.: none
- B.C. Ministry of Environment. none. The Fraser River flood control program. B.C. Ministry of Environment, Environment Canada.
KEYWORDS: estuary, physical environment, discharge.
REF. NO.: ..495 LOCATION: new CALL NO.: new
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KEYWORDS: Main Arm, water quality, nutrients, major ions, oxygen, pH.
REF. NO.: ...48 LOCATION: WPMB library CALL NO.: F2-HQ.4
- B.C. Research. 1951. Survey of Fraser River water quality. Second progress report. B.C. Research, Report Z-CH-50-60, 5p.
KEYWORDS: Main Arm, water quality, oxygen, pH, major ions, nutrients.
REF. NO.: ...49 LOCATION: WPMB library CALL NO.: F2-HQ.3
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KEYWORDS: Main Arm, water quality, nutrients, pH, oxygen, major ions.
REF. NO.: ...50 LOCATION: WPMB library CALL NO.: F2-HQ.2
- B.C. Research. 1972. Water movement studies in the south arm of the Fraser River. Project Rept. 1462, for the Greater Vancouver Sewerage and Drainage District, 20p.
KEYWORDS: Main Arm, water quality, physical environment, sewage, tides.
REF. NO.: ..108 LOCATION: WQB library CALL NO.: 808.3 A986
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KEYWORDS: estuary, sediments, water quality, physical environment, trace metals, nutrients.
REF. NO.: ..109 LOCATION: WQB library CALL NO.: 0806 A143
- B.C. Research. 1973. Water quality studies in the Lower Fraser River. Annual Rept. project 1462, for the Greater Vancouver Sewerage and Drainage District, 16p. + tables.
KEYWORDS: estuary, water quality, sediments, physical environment, temperature, salinity.
REF. NO.: ..110 LOCATION: WQB lib 1302.1 CALL NO.: A982

REFERENCES (listing continued):

- B.C. Research. 1973. Environmental studies at Iona Island. Project Rept. for the Greater Vancouver Sewerage and Drainage District, 52p. + tables.
KEYWORDS: Sturgeon Bank, physical environment, sediments, bacteria, invertebrates, plants.
REF. NO.: ..111 LOCATION: WQB library CALL NO.: 606 A981
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KEYWORDS: Main Arm, water quality, physical environment, sewage, tides.
REF. NO.: ..112 LOCATION: WQB library CALL NO.: 808.3 A985
- B.C. Research. 1975. Annacis Island outfall dilution study. Project Rept.#4, Project 1524, for the Greater Vancouver Sewerage and Drainage District, 71p.
KEYWORDS: Main Arm, water quality, physical environment, sewage, discharge, modelling.
REF. NO.: ..113 LOCATION: WQB lib 1302.2 CALL NO.: A984
- B.C. Research. 1975. Environmental studies at Iona Island. Project Rept.#2, Project 1511/2, for the Greater Vancouver Sewerage and Drainage District, 162p.
KEYWORDS: Sturgeon Bank, water quality, invertebrates, sediments, plants, physical environment.
REF. NO.: ..114 LOCATION: WQB library CALL NO.: 606 A983
- B.C. Research. 1976. Water quality and movement in the Fraser River near Annacis Island. Rept., for the Greater Vancouver Sewerage and Drainage District, 98p.
KEYWORDS: Main Arm, water quality, physical environment, sewage, tides, discharge.
REF. NO.: ..115 LOCATION: WQB library CALL NO.: 808.3 A985
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KEYWORDS: Sturgeon Bank, sediments, invertebrates, benthos, bacteria, fecal coliforms.
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REF. NO.: ..611 LOCATION: GVRD CALL NO.: Parks, Red
- B.C. Research. curr. Data base of landfill leachate monitoring at Fraser River landfill port site at No. 7 Road ditch. Richmond. B.C. Research, Unpub. data for Fraser River Ports.
KEYWORDS: Main Arm, contaminant sources, landfill leachates, invertebrates, benthos.
REF. NO.: ..615 LOCATION: FR Ports CALL NO.: T. Grozier
- B.C. Research. 1982. Satellite remote sensing for monitoring construction impacts at Roberts Bank port, Phase II study. Project No. 1-13-532, 32p.
KEYWORDS: Roberts Bank, plants, remote sensing.
REF. NO.: ..440 LOCATION: Vanc. Port CALL NO.: B. Moody
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KEYWORDS: Roberts Bank, plants, remote sensing.
REF. NO.: ..425 LOCATION: Vanc. Port CALL NO.: B. Moody
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KEYWORDS: Main Arm, water use, commercial use, dredging, sediments, particle size.
REF. NO.: ..540 LOCATION: Public Works CALL NO.: 8-16
- B.C. Research. 1976. Water quality of the Fraser River in relation to the disposal of dredge spoil, Steveston, B.C. Public Works Canada, 4p+.
KEYWORDS: Main Arm, water quality, water use, commercial use, dredging, oxygen.
REF. NO.: ..544 LOCATION: Public Works CALL NO.: 8-76
- B.C. Research. 1976. Ocean dumping studies - Steveston fishing harbour (waterfront site), Steveston, B.C. Public Works Canada, 4p+.
KEYWORDS: Main Arm, water use, commercial use, dredging, fishing, sediments.
REF. NO.: ..545 LOCATION: Public Works CALL NO.: 8-75

REFERENCES (listing continued):

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KEYWORDS: Main Arm, water quality, contaminant sources, sewage.
REF. NO.: ..327 LOCATION: BC Research CALL NO.:
- B.C. Research. 1977. Analysis of dredging spoils. Public Works Canada, Project No. 1-05-739-20, 2p + tables.
KEYWORDS: estuary, water use, commercial use, dredging, sediments, trace metals.
REF. NO.: ..554 LOCATION: Public Works CALL NO.: 8-52
- B.C. Research. 1977. Environmental monitoring program for dredging operation at Point Grey scow mooring basin, North Arm, Fraser River. B.C. Public Works Canada, 12p.
KEYWORDS: North Arm, sediments, water quality, dredging, particle size, fecal coliforms.
REF. NO.: ..330 LOCATION: Public Works CALL NO.: 8-39
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KEYWORDS: North Arm, sediments, water quality, dredging, particle size, invertebrates.
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KEYWORDS: Main Arm, water quality, physical environment, salinity, tides, fecal coliforms.
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KEYWORDS: North Arm, physical environment, tides.
REF. NO.: ..318 LOCATION: DFO, Vanc CALL NO.: CAN 124
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KEYWORDS: estuary, water quality.
REF. NO.: ..319 LOCATION: DFO, Vanc CALL NO.: CAN 124
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KEYWORDS: estuary, water use, commercial use, shipping, contaminant sources, chemical spills.
REF. NO.: ..580 LOCATION: new CALL NO.: new

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KEYWORDS: estuary, water use, irrigation, industrial use, recreational use, commercial use.
REF. NO.: ..306 LOCATION: Sedge lib TD227 CALL NO.: B7 B37
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KEYWORDS: estuary, birds, waterfowl, distribution, abundance.
REF. NO.: ..349 LOCATION: Butler, CWS CALL NO.: none
- Bawden, C.A., W.A. Heath, and A.B. Norton. 1973. A preliminary baseline study of Roberts and Sturgeon Banks. Westwater Research Centre, UBC, Tech. Rept. 1, 54p.
KEYWORDS: estuary, plants, sediments, water quality, trace metals, trace organics.
REF. NO.: ...95 LOCATION: WQB library CALL NO.: 808 A164
- Beak Consultants Limited. 1981. Environmental impact statement of proposed improvements to the Fraser River shipping channel. Public Works Canada, Pacific Region.
KEYWORDS: Main Arm, water use, commercial use, shipping, dredging, physical environment.
REF. NO.: ..278 LOCATION: new CALL NO.: new
- Beak Consultants Ltd. 1978. EIS study recommendations: Proposed improvements to the Fraser River shipping channel. Rept. for Public Works Canada, File K4350, 41p.
KEYWORDS: Main Arm, water quality, sediments, invertebrates, fish, water use.
REF. NO.: ...63 LOCATION: WPMB impact CALL NO.: F4-EI.3
- Beak Consultants Ltd. 1981. Overview summary: Environmental impact study for proposed improvements to the Fraser River shipping channel. Rept. for Public Works Canada, Pacific Region.
KEYWORDS: Main Arm, water quality, sediments, invertebrates, fish, water use.
REF. NO.: ...64 LOCATION: WPMB impact CALL NO.: F4-EI.5
- Beak-Hinton Consultants Ltd. 1977. Environmental impact assessment of Roberts Bank port expansion. Vol.3, Appendix A. The existing physical environment. National Harbours Board, 91p.
KEYWORDS: Roberts Bank, water use, commercial use, shipping, physical environment, sediments.
REF. NO.: ..305 LOCATION: new CALL NO.: new

REFERENCES (listing continued):

Beak-Hinton Consultants Ltd. 1977. Environmental impact assessment of Roberts Bank port expansion. Vol.4, Appendix B. The existing biological environment. National Harbours Board, 140p+.

KEYWORDS: Roberts Bank, water use, commercial use, shipping, fish, birds.

REF. NO.: ..227 **LOCATION:** new **CALL NO.:** new

Beak-Hinton Consultants Ltd. 1977. Environmental impact assessment of Roberts Bank port expansion. Vol.6, Appendix D. Engineering and commodity projections. National Harbours Board, 198p.

KEYWORDS: Roberts Bank, water use, commercial use, shipping.

REF. NO.: ..288 **LOCATION:** new **CALL NO.:** new

Beak-Hinton Consultants Ltd. 1978. Response to "A statement of deficiencies in the environmental assessment of Roberts Bank port expansion". Nat. Harbours Board, 198p.

KEYWORDS: Roberts Bank, water use, commercial use, shipping.

REF. NO.: ..548 **LOCATION:** Public Works **CALL NO.:** 8-62

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KEYWORDS: Roberts Bank, water use, commercial use, shipping.

REF. NO.: ..549 **LOCATION:** Public Works **CALL NO.:** 8-62

Beak-Hinton Consultants Ltd. 1977. Environmental impact assessment of Roberts Bank port expansion. Vol.2, Main report. Nat. Harbours Board, 201p.

KEYWORDS: estuary, water use, commercial use, shipping, sediments, water quality.

REF. NO.: ..550 **LOCATION:** Public Works **CALL NO.:** 8-62

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KEYWORDS: Roberts Bank, water use, commercial use, shipping, water quality, sediments.

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KEYWORDS: estuary, plants, vascular plants.

REF. NO.: ..383 **LOCATION:** GVRD library **CALL NO.:** K172 B42

Bell, C.R. and L.J. Albright. 1982. Bacteriological investigation of the neuston and plankton in the Fraser River estuary, British Columbia. Estuar. Coast. Shelf Sci. 15(4):385-394.

KEYWORDS: estuary, bacteria.

REF. NO.: ..185 **LOCATION:** Churchland **CALL NO.:** none

REFERENCES (listing continued):

- Bell, C.R. and L.J. Albright. 1981. Attached and free-floating bacteria in the Fraser River estuary, British Columbia, Canada. Mar. Ecol. 6(3):317-327.**
KEYWORDS: estuary, bacteria.
REF. NO.: ..180 **LOCATION:** Churchland **CALL NO.:** none
- Bell, C.R. and L.J. Albright. 1982. Attached and free-floating bacteria in a diverse selection of water bodies. Appl. Environ. Microbiol. 43(6):1227-1237.**
KEYWORDS: estuary, bacteria.
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KEYWORDS: Boundary Bay, birds, water quality, plants.
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REF. NO.: ..300 LOCATION: new

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KEYWORDS: Main Arm, contaminant sources, stormwater discharges, water quality, trace metals, nutrients.

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KEYWORDS: Main Arm, contaminant sources, stormwater discharges, water quality, trace metals, nutrients.

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KEYWORDS: Boundary Bay, sediments.
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KEYWORDS: Main Arm, water quality, trace metals, iron, bioassay, biological availability.
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REF. NO.: ..320 LOCATION: DFO, Vanc CALL NO.: CAN 126
- Fraser River Board. 1963. Flood control and hydro-electric power in the Fraser river basin. Final Report. Fraser River Board, Victoria, 106pp.
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Fraser River Ecology Committee. 1976. Ecological and other consequences of the proposed System E development in the Fraser River basin. Fraser River Upstream Storage Review, Canada-British Columbia Fraser River Joint Advisory Board, 295p.

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KEYWORDS: estuary, water quality.

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Fraser River Estuary Study. 1979. Fraser River Estuary Study: water quality. Summary report of the water quality work group. Fraser River Estuary Study, Ministry of Environment, Victoria, 176p.

KEYWORDS: estuary, water quality, contaminant sources, sewage, trace metals.

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Fraser River Estuary Study Steering Committee. 1978. Fraser River Estuary Study. Summary Report. Fraser River Estuary Study, Environment and Land Use Committee Secretariat, Victoria, 145p.

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REF. NO.: ..286 LOCATION: new CALL NO.: new

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KEYWORDS: estuary, sediments, sedimentation.
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KEYWORDS: Main Arm, water use, commercial use, dredging, birds, distribution.
REF. NO.: ..558 LOCATION: Public Works CALL NO.: 8-147
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KEYWORDS: estuary, water quality, trace organics, sediments, fish, pesticides.
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KEYWORDS: estuary, water quality, sediments, trace metals, fish, birds.
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REF. NO.: ..475 LOCATION: EPS West Van CALL NO.: none
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..146	..155	..159	..167	..170	..177	..197	..235	..237	..243	..245	..266
..267	..271	..278	..279	..280	..281	..282	..289	..308	..311	..312	..313
..315	..321	..327	..329	..331	..343	..346	..354	..355	..364	..365	..366
..368	..375	..397	..400	..402	..415	..427	..428	..437	..454	..465	..468
..489	..502	..528	..531	..532	..535	..536	..538	..540	..544	..545	..552
..553	..557	..558	..564	..565	..568	..569	..570	..586	..587	..598	..604
..605	..606	..607	..611	..615	..622	..631	..636	..645	..646	..647	..648
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.. 62	.. 69	..111	..114	..124	..125	..126	..127	..147	..157	..183	..190
..204	..205	..217	..231	..239	..247	..248	..249	..251	..257	..270	..296
..309	..344	..367	..372	..385	..386	..387	..403	..443	..537	..539	..541
..543	..571	..583	..593	..594	..599	..602	..616	..617	..618	..625	..628
..641											

Roberts Bank

.. 18	.. 73	.. 88	.. 93	..227	..258	..264	..288	..298	..299	..300	..301
..302	..303	..304	..305	..369	..406	..416	..421	..422	..423	..424	..425
..432	..433	..440	..441	..446	..448	..450	..484	..504	..506	..517	..547
..548	..549	..551	..556	..581	..592	..595	..612	..613	..614		

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.. 84	.. 85	.. 87	.. 90	.. 94	.. 95	.. 96	.. 98	.. 99	..100	..101	..102
..103	..104	..105	..107	..109	..110	..116	..117	..118	..119	..120	..121
..129	..132	..136	..140	..142	..143	..144	..148	..149	..150	..151	..152
..153	..154	..156	..158	..160	..161	..162	..163	..164	..165	..166	..168
..169	..171	..172	..173	..174	..175	..176	..178	..179	..180	..181	..182
..184	..185	..186	..188	..189	..191	..192	..193	..194	..195	..196	..198
..199	..200	..201	..202	..203	..206	..207	..209	..210	..211	..212	..213
..214	..216	..218	..219	..220	..221	..222	..224	..225	..226	..228	..229
..230	..232	..234	..236	..238	..240	..241	..242	..244	..246	..250	..253
..254	..256	..260	..261	..262	..263	..265	..268	..269	..272	..273	..274
..275	..276	..277	..283	..284	..285	..286	..287	..297	..306	..307	..310
..314	..316	..317	..319	..320	..322	..323	..324	..325	..326	..328	..332
..333	..334	..335	..336	..337	..338	..339	..340	..341	..342	..345	..348
..349	..350	..351	..352	..356	..357	..358	..359	..360	..362	..370	..371
..373	..374	..376	..377	..378	..379	..380	..382	..383	..384	..388	..390
..391	..392	..393	..394	..399	..401	..404	..405	..407	..408	..409	..410
..411	..412	..413	..414	..417	..418	..419	..420	..430	..434	..435	..436
..438	..442	..444	..445	..447	..449	..451	..452	..453	..455	..456	..457
..458	..459	..460	..461	..462	..463	..464	..466	..467	..470	..471	..472
..473	..474	..475	..476	..477	..478	..479	..480	..481	..482	..483	..485
..486	..487	..488	..490	..491	..492	..493	..494	..495	..496	..497	..498
..499	..500	..501	..503	..508	..526	..527	..529	..530	..533	..534	..542
..546	..550	..554	..559	..560	..561	..562	..563	..566	..567	..572	..573
..574	..575	..576	..577	..578	..579	..580	..582	..584	..585	..588	..589
..590	..591	..596	..597	..600	..601	..608	..609	..620	..621	..623	..626
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..200	..201	..204	..209	..213	..223	..225	..234	..238	..250	..251	..254
..263	..265	..266	..267	..274	..276	..278	..279	..292	..298	..305	..314
..315	..318	..320	..321	..323	..324	..325	..326	..329	..333	..335	..336
..348	..352	..357	..371	..375	..377	..390	..391	..399	..402	..404	..406
..407	..418	..423	..430	..441	..445	..449	..453	..454	..464	..466	..495
..496	..503	..529	..539	..542	..543	..559	..570	..571	..572	..573	..574
..575	..576	..577	..578	..579	..581	..582	..584	..586	..593	..595	..600
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..247	..259	..270	..271	..272	..289	..327	..338	..343	..346	..362	..367
..384	..385	..386	..387	..388	..395	..396	..399	..402	..403	..408	..418
..419	..434	..439	..443	..458	..468	..471	..482	..489	..494	..497	..535
..536	..541	..561	..564	..571	..580	..583	..599	..601	..602	..603	..604
..605	..606	..607	..615	..617	..618	..626	..627	..628	..630	..632	..633
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..202	..205	..212	..225	..233	..237	..238	..248	..250	..251	..253	..254
..262	..305	..313	..325	..326	..330	..334	..335	..337	..339	..340	..341
..342	..344	..347	..348	..352	..362	..370	..371	..386	..400	..404	..406
..407	..408	..430	..431	..432	..438	..442	..444	..446	..447	..448	..449
..451	..452	..453	..454	..455	..456	..457	..464	..466	..469	..470	..473
..474	..475	..476	..477	..478	..479	..481	..482	..485	..486	..496	..497
..502	..528	..529	..530	..531	..533	..539	..540	..542	..543	..545	..546
..550	..551	..554	..555	..556	..557	..559	..562	..563	..568	..589	..590
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..100	..101	..102	..103	..104	..105	..106	..107	..108	..109	..110	..112
..113	..114	..115	..116	..117	..119	..120	..121	..122	..123	..124	..128
..130	..135	..138	..141	..142	..149	..150	..151	..154	..155	..156	..157
..169	..174	..175	..176	..187	..190	..191	..193	..194	..195	..197	..200
..207	..208	..210	..214	..216	..220	..222	..224	..229	..231	..232	..235
..236	..237	..243	..246	..247	..248	..251	..252	..253	..256	..257	..273
..279	..291	..297	..298	..309	..313	..314	..315	..319	..321	..323	..327
..329	..330	..333	..334	..343	..346	..362	..364	..375	..377	..384	..387
..397	..398	..399	..400	..402	..405	..409	..414	..418	..419	..421	..432
..434	..439	..444	..460	..461	..463	..465	..468	..469	..471	..472	..473
..474	..475	..476	..477	..478	..479	..481	..482	..494	..497	..498	..499
..500	..502	..508	..535	..536	..539	..541	..544	..550	..551	..555	..556
..560	..561	..563	..568	..569	..585	..587	..601	..603	..604	..605	..606
..607	..608	..609	..611	..613	..616	..623	..624	..629	..630	..637	..645
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..170	..172	..203	..204	..217	..230	..233	..235	..258	..268	..269	..291
..292	..298	..351	..354	..355	..357	..359	..370	..373	..383	..403	..415
..422	..425	..440	..446	..483	..497	..527	..532	..556	..559	..560	..588
..592	..596	..598	..600	..613	..614	..625	..644	..647	..648	..649	

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.. 3	.. 4	.. 73	.. 78	..111	..122	..129	..132	..135	..138	..139	..141
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..177	..173	..175	..205	..207	..223	..233	..239	..251	..252	..253	..255
..262	..265	..267	..268	..270	..298	..309	..352	..357	..365	..366	..367
..368	..369	..371	..372	..373	..400	..408	..416	..421	..424	..433	..435
..479	..543	..555	..556	..557	..567	..570	..594	..596	..599	..613	..615
..618	..619	..620	..629	..635	..638	..639	..642	..643	..644	..646	

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.. 63	.. 64	.. 65	.. 68	.. 69	.. 71	.. 72	.. 77	.. 88	.. 89	.. 91	.. 98
..105	..117	..118	..121	..124	..126	..127	..144	..145	..148	..149	..150
..154	..157	..158	..160	..161	..162	..166	..167	..168	..171	..172	..173
..177	..184	..188	..189	..190	..192	..198	..200	..204	..211	..219	..227
..229	..231	..232	..242	..244	..258	..260	..261	..263	..264	..265	..266
..268	..271	..273	..274	..275	..277	..292	..298	..307	..308	..310	..312
..316	..317	..322	..331	..338	..368	..372	..373	..374	..386	..395	..396
..400	..401	..402	..408	..418	..450	..462	..465	..467	..473	..474	..475
..476	..477	..478	..480	..487	..488	..493	..496	..497	..498	..499	..500
..502	..505	..532	..534	..537	..538	..539	..553	..563	..567	..591	..597
..613	..616	..625	..629	..635	..640	..642	..644	..645			

Birds

.. 9	.. 23	.. 24	.. 27	.. 28	.. 29	.. 36	.. 37	.. 38	.. 40	.. 41	.. 61
.. 72	.. 83	.. 89	.. 91	..144	..154	..199	..204	..211	..217	..227	..240
..241	..258	..291	..292	..307	..345	..349	..350	..353	..356	..358	..360
..368	..373	..379	..410	..411	..412	..413	..417	..418	..420	..426	..427
..428	..429	..435	..437	..473	..474	..475	..476	..477	..478	..496	..498
..499	..500	..505	..526	..539	..552	..558	..608	..613	..618	..663	

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..216	..218	..221	..226	..227	..228	..248	..276	..277	..278	..280	..281
..282	..285	..287	..288	..292	..296	..299	..300	..301	..302	..303	..304
..305	..306	..308	..310	..311	..312	..316	..317	..322	..323	..328	..331
..332	..340	..368	..369	..371	..373	..376	..378	..381	..382	..392	..393
..394	..396	..436	..484	..487	..488	..490	..491	..492	..493	..496	..498
..499	..500	..501	..504	..505	..532	..537	..538	..540	..541	..544	..545
..548	..549	..550	..551	..553	..554	..557	..558	..580	..612	..637	..645